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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/977,194	10/16/2001	Atsushi Kota	Q66658	. 3620	
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SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC			DHARIA, PRABODH M		
2100 Pennsylv	ania Avenue, N.W.				
	Washington, DC 20037-3213		ART UNIT	PAPER NUMBER	
<i>G</i> ,			2673	N -	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/977,194	KOTA ET AL.				
. Office Action Summary	Examiner	Art Unit				
<u>-</u> ه	Prabodh M Dharia	2673				
The MAILING DATE of this communication ap						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a report of the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	. 136(a). In no event, however, may a reply be tin ply within the statutory minimum of thirty (30) day I will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 201	<u>May 2004</u> .					
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ Thi	is action is non-final.					
3) Since this application is in condition for allows	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ⊠ Claim(s) <u>1-20</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-20</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/e	awn from consideration.					
Application Papers						
9) ☐ The specification is objected to by the Examin  10) ☑ The drawing(s) filed on 16 October 2001 is/are  Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct that any objected to by the E	e: a) $\square$ accepted or b) $\square$ objected or by objected or a drawing (s) be held in abeyance. Section is required if the drawing (s) is objection is required.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) ☑ Acknowledgment is made of a claim for foreign a) ☑ All b) ☐ Some * c) ☐ None of:  1. ☑ Certified copies of the priority documen 2. ☐ Certified copies of the priority documen 3. ☐ Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	nts have been received.  Its have been received in Applicationity documents have been received au (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

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1. Status: Receipt is acknowledged of papers submitted on 01-08-2004 under amendments and new claims have been placed of record in the file. Claim 1-20 are pending in this action.

2. Applicant's arguments, see under remarks, filed 05-20-2004, with respect to claims 1,5,17,19 have been fully considered and are persuasive. The finality of 02-20-2004 has been withdrawn.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-14,17,18, are rejected under 35 U.S.C. 103(a) as being unpatentable over Okuda (6,380,689 B1) in view of Nakano et al. (6,043,818) and Guillemaud et al. (5,517,609).

Regarding Claim 1, Okuda teaches a picture displaying apparatus (Col. 1, Lines 6-10, Lines 15-18), comprising: a plurality of scanning lines to which scanning signals are inputted (Col. 3, Lines 30-34, Lines 35-37), respectively; a plurality of data lines to which data signals are inputted, respectively (Col. 3, Lines 30-34, Lines 40-43); a light emission element disposed at each of a plurality of intersections (Col. 3, Lines 30-34, Col. 1, Lines 6-9, Col. 1, Line 65 to Col. 2, Line 14) composed of the plurality of scanning lines and the plurality of data lines (Col. 3, Lines 30-34); a picture displaying unit having the plurality of light emission elements (Col. 1,

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Lines 6-10, Lines 15-18); and a memory unit storing a single display data indicative of an display content of the picture displaying unit (Col. 3, Line 29), and wherein the memory unit has a plurality of memory cells (Col. 3, Lines 46-48), and wherein each of the plurality of memory cells stores a unit display data of a part of the single display data (Col. 3, Lines 49-55), and wherein a plurality of the unit display data stored in the plurality of memory cells (Col. 3, Lines 46-55).

However, Okuda fails to teach memory are read from the memory unit in a different order for each single predetermined frame or each plural predetermined frames, and wherein the plurality of unit display data are written to the picture displaying unit in an order when the, plurality of unit display data are read from the memory unit, such that the display content in the picture displaying unit is different for the each predetermined frame or frames.

However, Nakano et al. teaches memory are read from the memory unit in a different order for each single predetermined frame or each plural predetermined frames, and wherein the plurality of unit display data are written to the picture displaying unit in an order when the, plurality of unit display data are read from the memory unit, such that the display content in the picture displaying unit is different for the each predetermined frame or frames (Col. 13, Lines 16-26, Col. 14, Lines 4-10, Col. 15, Lines 11 to Col. 16, Line 3) (during screen saver routine the CPU only accesses the screen saver program where it is displaying rotating image stored in the memory, since different part of the image to be displayed different position on the display it requires to read frame by frame basis information in the different order and the display content in the picture displaying unit is different for the each predetermined frame or frames).

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Thus it is obvious to one in the ordinary skill in the art at the time of invention was made to incorporate teaching of Nakano et al. in Okuda teaching to be able to select and display a unique image during screen saver program and protect the display screen from burn-in.

Okuda teaches a picture displaying apparatus (Col. 1, Lines 6-10, Lines 15-18).

However, Okuda fails to teach memory read from the memory unit in different order for each single predetermined frame or each plural predetermined frames

However, Guillemaud et al. teaches memory read from the memory unit in different order for each single predetermined frame or each plural predetermined frames (Col. 10, Lines 6-32, Col. 15, Lines 15-24).

Thus it is obvious to one in the ordinary skill in the art at the time of invention was made to incorporate teaching of Guillemaud et al. in Okuda teaching to be able to select and display a unique image and to be able to have flexibility to access random access memory efficiently.

Regarding Claim 2, Nakano et al. teaches when the plurality of unit display data are read from the memory unit, at least one specific memory cell among the plurality of memory cells is used as a read start position and the plurality of unit display data are read in accordance with an arrangement order of the plurality of memory cells from the specific memory cell, and wherein the specific memory cell is changed for the each predetermined frame or frames (Col. 13, Lines 16-26, Col. 14, Lines 4-10, Col. 15, Lines 11 to Col. 16, Line 3) (during screen saver routine the CPU only accesses the screen saver program it has stored specific rotating display images specific memory cells, where it is displaying rotating image stored in the memory, since different part of the image to be displayed different position on the display it requires to read frame by

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frame basis information in the different order and the display content in the picture displaying unit is different for the each predetermined frame or frames).

Regarding Claim 3, Nakano et al. teaches a part of the plurality of unit display data is changed before the part of the plurality of unit display data is read from the memory unit, and wherein the plurality of unit display data including the changed part of the plurality of unit display data are read from the memory unit in the different order for the each predetermined frame or frames, and wherein the plurality of unit display data including the changed part of the plurality of unit display data are written to the picture displaying unit, in accordance with the order when the plurality of unit display data are read from the memory unit (Col. 13, Lines 16-26, Col. 14, Lines 4-10, Col. 15, Lines 11 to Col. 16, Line 3) (during screen saver routine the CPU only accesses the screen saver program it has stored specific rotating display images specific memory cells, where it is displaying rotating image stored in the memory, since different part of the image to be displayed different position on the display it requires to read frame by frame basis information in the different order and the display content in the picture displaying unit is different for the each predetermined frame or frames).

Regarding Claim 4, Nakano et al. teaches a part of the plurality of unit display data is changed before the part of the plurality of unit display data is read from the memory unit, and wherein the plurality of unit display data including the changed part of the plurality of unit display data are read from the memory unit in the different order for the each predetermined frame or frames, and wherein the plurality of unit display data including the changed part of the

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plurality of unit display data are written to the picture displaying unit, in accordance with the order when the plurality of unit display data are read from the memory unit (Col. 13, Lines 16-26, Col. 14, Lines 4-10, Col. 15, Lines 11 to Col. 16, Line 3) (during screen saver routine the CPU only accesses the screen saver program it has stored specific rotating display images specific memory cells, where it is displaying rotating image stored in the memory, since different part of the image to be displayed different position on the display it requires to read frame by frame basis information in the different order and the display content in the picture displaying unit is different for the each predetermined frame or frames).

Regarding Claim 5, Okuda teaches a picture displaying apparatus (Col. 1, Lines 6-10, Lines 15-18), comprising: a plurality of scanning lines to which scanning signals are inputted (Col. 3, Lines 30-34, Lines 35-37), respectively; a plurality of data lines to which data signals are inputted, respectively (Col. 3, Lines 30-34, Lines 40-43); a light emission element disposed at each of a plurality of intersections (Col. 3, Lines 30-34, Col. 1, Lines 6-9, Col. 1, Line 65 to Col. 2, Line 14) composed of the plurality of scanning lines and the plurality of data lines (Col. 3, Lines 30-34); a picture displaying unit having the plurality of light emission elements (Col. 1, Lines 6-10, Lines 15-18); and wherein the picture displaying unit (Col. 1, Lines 6-10, Lines 15-18), has a plurality of pixels corresponding to the plurality of light emission elements (Col. 1, Line 65 to Col. 2, Line 4, Col. 3, Line 64 to Col. 4, Line 2, Col. 3, lines 49-58), and wherein each of the plurality of memory (Col. 3, Line 29) cells stores (Col. 3, Lines 49-51) a unit display data (Col. 3, Lines 51-55) of a part of the single display data (Col. 3, Lines 49-56), and wherein the unit display data is written to each of the plurality of pixels (Col. 3, lines 55-58)and wherein the

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memory unit has a plurality of memory cells (Col. 3, Lines 46-48), and wherein each of the plurality of memory cells stores a unit display data of a part of the single display data (Col. 3, Lines 49-55), and wherein a plurality of the unit display data stored in the plurality of memory cells (Col. 3, Lines 46-55).

However, Okuda fails to teach memory are read from the memory unit in a different order for each single predetermined frame or each plural predetermined frames, and wherein the plurality of unit display data are written to the picture displaying unit in an order when the, plurality of unit display data are read from the memory unit, such that the display content in the picture displaying unit is different for the each predetermined frame or frames.

However, Nakano et al. teaches memory are read from the memory unit in a different order for each single predetermined frame or each plural predetermined frames, and wherein the plurality of unit display data are written to the picture displaying unit in an order when the, plurality of unit display data are read from the memory unit, such that the display content in the picture displaying unit is different for the each predetermined frame or frames (Col. 13, Lines 16-26, Col. 14, Lines 4-10, Col. 15, Lines 11 to Col. 16, Line 3) (during screen saver routine the CPU only accesses the screen saver program where it is displaying rotating image stored in the memory, since different part of the image to be displayed different position on the display it requires to read frame by frame basis information in the different order and the display content in the picture displaying unit is different for the each predetermined frame or frames).

Thus it is obvious to one in the ordinary skill in the art at the time of invention was made to incorporate teaching of Nakano et al. in Okuda teaching to be able to select and display a unique image during screen saver program and protect the display screen from burn-in.

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Okuda teaches a picture displaying apparatus (Col. 1, Lines 6-10, Lines 15-18).

However, Okuda fails to teach memory read from the memory unit in different order for each single predetermined frame or each plural predetermined frames

However, Guillemand et al. teaches memory read from the memory unit in different order for each single predetermined frame or each plural predetermined frames (Col. 10, Lines 6-32, Col. 15, Lines 15-24).

Thus it is obvious to one in the ordinary skill in the art at the time of invention was made to incorporate teaching of Guillemaud et al. in Okuda teaching to be able to select and display a unique image and to be able to have flexibility to access random access memory efficiently.

Regarding Claim 6, Okuda teaches when the plurality of unit display data are written to the picture displaying unit (Col. 3, Lines 44-47), at least one specific pixel among the plurality of pixels is used as a write start position (Col. 3, Lines 49-58) and the plurality of unit display data are written in accordance with an arrangement order of the plurality of pixels from the specific pixel, and wherein the specific pixel is changed for the each predetermined frame or frames (Col. 3, Line 64 to Col. 4, Line 25). Nakano et al. teaches during screen saver routine the rotating image stored in the memory, display in different part of the screen with different image, which changes data written to specific pixel frame to frame or predetermined frames (Col. 13, Lines 16-26, Col. 14, Lines 4-10, Col. 15, Lines 11 to Col. 16, Line 3)

Regarding Claim 7, Nakano et al. teaches a part of the plurality of unit display data is changed before the part of the plurality of unit display data is read from the memory unit, and

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wherein the plurality of unit display data including the changed part of the plurality of unit display data are written to the picture displaying unit in the different order for the each predetermined frame or frames (Col. 13, Lines 16-26, Col. 14, Lines 4-10, Col. 15, Lines 11 to Col. 16, Line 3) (during screen saver routine the CPU only accesses the screen saver program where it is displaying rotating image stored in the memory, since different part of the image to be displayed different position on the display it requires to read frame by frame basis information in the different order and the display content in the picture displaying unit is different for the each predetermined frame or frames).

Regarding Claim 8, Nakano et al. teaches a part of the plurality of unit display data is changed before the part of the plurality of unit display data is read from the memory unit, and wherein the plurality of unit display data including the changed part of the plurality of unit display data are written to the picture displaying unit in the different order for the each predetermined frame or frames (Col. 13, Lines 16-26, Col. 14, Lines 4-10, Col. 15, Lines 11 to Col. 16, Line 3) (during screen saver routine the CPU only accesses the screen saver program where it is displaying rotating image stored in the memory, since different part of the image to be displayed different position on the display it requires to read frame by frame basis information in the different order and the display content in the picture displaying unit is different for the each predetermined frame or frames).

Regarding Claim 9, Nakano et al. teaches the picture displaying unit is designed such that lights of the picture displaying unit can be emitted in three colors of R, G and B, and wherein a supply of currents to the plurality of data lines corresponding to at least one of the three colors of

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R, G and B is stopped, such that the lights are emitted from the picture displaying unit in one or two colors among the three colors of R, G and B (Col. 3, Line 63 to Col. 4, Line 12). (during screen saver routine the CPU only accesses the screen saver program where it is displaying rotating image stored in the memory, and screen saver routine to reduce the brightness, it is obvious to one in the ordinary skill in the art display with less color to fade the image).

Regarding Claim 10, Nakano et al. teaches the picture displaying unit is designed such that lights of the picture displaying unit can be emitted in three color of R, G and B, and wherein a supply of currents to the plurality of data lines corresponding to at least one of the three colors of R, G and B is stopped, such that the lights are emitted from the picture displaying unit in one or two colors among the three colors of R, G and B (Col. 3, Line 63 to Col. 4, Line 12). (during screen saver routine the CPU only accesses the screen saver program where it is displaying rotating image stored in the memory, and screen saver routine to reduce the brightness, it is obvious to one in the ordinary skill in the art display with less color to fade the image).

Regarding Claim 11, Nakano et al. teaches at least one of the three colors of R, G and B is changed for the each predetermined frame or frames (during screen saver routine the rotating image stored in the memory, display in different part of the screen with different image, which changes data with color written to specific pixel frame to frame or predetermined frames (Col. 13, Lines 16-26, Col. 14, Lines 4-10, Col. 15, Lines 11 to Col. 16, Line 3).

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Regarding Claim 12, Nakano et al. teaches the at least one of the three colors of R, G and B is changed for the each predetermined frame or frames (during screen saver routine the rotating image stored in the memory, display in different part of the screen with different image, which changes data with color written to specific pixel frame to frame or predetermined frames (Col. 13, Lines 16-26, Col. 14, Lines 4-10, Col. 15, Lines 11 to Col. 16, Line 3).

Regarding Claim 13, Nakano et al. teaches the single display data is one of static picture data and dynamic picture data (Col. 1, Line 66 to Col. 2, Line 6).

Regarding Claim 14, Nakano et al. teaches the single display data is one of static picture data and dynamic picture data (Col. 1, Line 66 to Col. 2, Line 6).

Regarding Claim 17, Okuda teaches a method of driving (Col. 1, Lines 65-67) a picture displaying apparatus (Col. 1, Lines 6-10, Lines 15-18), comprising: (a) providing a picture displaying apparatus (Col. 1, Lines 6-10, Lines 15-18), which includes a picture displaying unit (Col. 1, Lines 6-10, Lines 15-18), having a plurality of light emission elements (Col. 2, lines 1-4), the plurality of light emission elements being disposed at a plurality of intersections composed of a plurality of scanning lines to which scanning signals are inputted, respectively and a plurality of data lines to which data signals are inputted, respectively (Col. 3, Lines 31-34, Lines 35-58); (b) providing a memory unit storing a single display data indicative of an display content of the picture displaying unit (Col. 3, Line 29), and wherein the memory unit has a plurality of memory cells (Col. 3, Lines 46-48), and wherein each of the plurality of memory cells stores a unit display data of a part of the single display data (Col. 3, Lines 49-55), and

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wherein a plurality of the unit display data stored in the plurality of memory cells (Col. 3, Lines 46-55).

However, Okuda fails to teach (c) reading a plurality of the unit display data stored in the plurality of memory cells from the memory unit in a different order for each single predetermined frame or each plural predetermined frames; and (d) writing the plurality of unit display data to the picture displaying unit in a order when the plurality of unit display data are read from the memory unit, such that the display content in the picture displaying unit is different for the each predetermined frame or frames.

However, Nakano et al. teaches (c) reading a plurality of the unit display data stored in the plurality of memory cells from the memory unit in a different order for each single predetermined frame or each plural predetermined frames; and (d) writing the plurality of unit display data to the picture displaying unit in a order when the plurality of unit display data are read from the memory unit, such that the display content in the picture displaying unit is different for the each predetermined frame or frames (Col. 13, Lines 16-26, Col. 14, Lines 4-10, Col. 15, Lines 11 to Col. 16, Line 3) (during screen saver routine the CPU only accesses the screen saver program where it is displaying rotating image stored in the memory, since different part of the image to be displayed different position on the display it requires to read frame by frame basis information in the different order and the display content in the picture displaying unit is different for the each predetermined frame or frames).

Thus it is obvious to one in the ordinary skill in the art at the time of invention was made to incorporate teaching of Nakano et al. in Okuda teaching to be able to select and display a unique image during screen saver program and protect the display screen from burn-in.

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Okuda teaches a picture displaying apparatus (Col. 1, Lines 6-10, Lines 15-18).

However, Okuda fails to teach memory read from the memory unit in different order for each single predetermined frame or each plural predetermined frames

However, Guillemand et al. teaches memory read from the memory unit in different order for each single predetermined frame or each plural predetermined frames (Col. 10, Lines 6-32, Col. 15, Lines 15-24).

Thus it is obvious to one in the ordinary skill in the art at the time of invention was made to incorporate teaching of Guillemaud et al. in Okuda teaching to be able to select and display a unique image and to be able to have flexibility to access random access memory efficiently.

Regarding Claim 18, Nakano et al. teaches (e) changing a part of the plurality of unit display data before the (c) is performed, and wherein at the (c), the plurality of unit display data including the changed part of the plurality of unit display data are read from the memory unit in the different order for the each predetermined frame or frames, and wherein at the step (d), the plurality of unit display data including the changed part of the plurality of unit display data are written to the picture displaying unit (Col. 13, Lines 16-26, Col. 14, Lines 4-10, Col. 15, Lines 11 to Col. 16, Line 3) (during screen saver routine the CPU only accesses the screen saver program where it is displaying rotating image stored in the memory, since different part of the image to be displayed different position on the display it requires to read frame by frame basis information in the different order and the display content in the picture displaying unit is different for the each predetermined frame or frames).

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5. Claims 19,20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Okuda (6,380,689 B1) in view of Nakano et al. (6,043,818) and Dye et al. (2002/0135585 A1).

Regarding Claim 19, Okuda teaches a method of driving (Col. 1, Lines 65-67) a picture displaying apparatus (Col. 1, Lines 6-10, Lines 15-18), comprising: (f) providing a picture displaying apparatus (Col. 1, Lines 6-10, Lines 15-18), which includes a picture displaying unit (Col. 1, Lines 6-10, Lines 15-18), having a plurality of light emission elements (Col. 2, lines 1-4), the plurality of light emission elements being disposed at a plurality of intersections composed of a plurality of scanning lines to which scanning signals are inputted, respectively and a plurality of data lines to which data signals are inputted (Col. 3, Lines 31-34, Lines 35-58), respectively, wherein the picture displaying unit (Col. 1, Lines 6-10, Lines 15-18), includes a plurality of pixels corresponding to the plurality of light emission elements (Col. 2, lines 1-4); (g) providing a memory unit storing a single display data indicative of an display content of the picture displaying unit (Col. 3, Line 29), wherein the memory unit has a plurality of memory cells, and each of the plurality of memory cells stores a unit display data of a part of the single display data (Col. 3, Lines 46-48); (h) reading a plurality of the unit display data from the plurality of memory cells (Col. 3, Lines 51-55); and (i) writing the read unit display data to each of the plurality of pixels (Col. 3, Lines 49-51).

However, Okuda fails to teach the (i), the plurality of read unit display data are written to the picture displaying unit in a different order for each single predetermined frame or each plural predetermined frames, such that the display content in the picture displaying unit is c) different for the each predetermined frame or frames.

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However, Nakano et al. teaches the (i), the plurality of read unit display data are written to the picture displaying unit in a different order for each single predetermined frame or each plural predetermined frames, such that the display content in the picture displaying unit is c) different for the each predetermined frame or frames. (Col. 13, Lines 16-26, Col. 14, Lines 4-10, Col. 15, Lines 11 to Col. 16, Line 3) (during screen saver routine the CPU only accesses the screen saver program where it is displaying rotating image stored in the memory, since different part of the image to be displayed different position on the display it requires to read frame by frame basis information in the different order and the display content in the picture displaying unit is different for the each predetermined frame or frames).

Thus it is obvious to one in the ordinary skill in the art at the time of invention was made to incorporate teaching of Nakano et al. in Okuda teaching to be able to select and display a unique image during screen saver program and protect the display screen from burn-in.

Okuda teaches a picture displaying apparatus (Col. 1, Lines 6-10, Lines 15-18).

However, Okuda fails to teach memory read from the memory unit in different order for each single predetermined frame or each plural predetermined frames

However, Dye et al. teaches memory read from the memory unit in different order for each single predetermined frame or each plural predetermined frames (page 3, paragraphs 25,26, page 14, paragraph 178, page 15, paragraph 186).

Thus it is obvious to one in the ordinary skill in the art at the time of invention was made to incorporate teaching of Dye et al. in Okuda teaching to be able to select and display a unique image and to be able to minimize data movement and manipulation for video display and thus increase system performance.

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Regarding Claim 20, Nakano et al. teaches (j) changing a part of the plurality of unit display data before the (h) is performed, and wherein at the step (h), the plurality of unit display data including the changed part of the plurality of unit display data are read from the plurality of memory cells, and wherein at the-step (i), the plurality of unit display data including the changed part of the plurality of unit display data are written to the picture displaying unit in the different order for the each predetermined frame or frames (Col. 13, Lines 16-26, Col. 14, Lines 4-10, Col. 15, Lines 11 to Col. 16, Line 3) (during screen saver routine the CPU only accesses the screen saver program where it is displaying rotating image stored in the memory, since different part of the image to be displayed different position on the display it requires to read frame by frame basis information in the different order and the display content in the picture displaying unit is different for the each predetermined frame or frames).

6. Claims 15,16, are rejected under 35 U.S.C. 103(a) as being unpatentable over Okuda (6,380,689 B1) in view of Nakano et al. (6,043,818) and Guillemaud et al. (5,517,609) as applied to claims 1-14, 17-20, above, and further in view of Ge et al. (5,347,292).

Regarding Claim 15, Okuda et al. modified by Nakano et al. teaches the light emission element is one of an EL element (Col. 1, Line 60 to Col. 2, line 4).

However, Okuda et al. modified by Nakano et al. and Guillemaud et al. fails to teach a light emitting diode and an FED.

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However, Ge et al. teaches a light emitting diode and an FED (Col. 1, Lines 37,38, Col. 2, Lines 60-64, Col. 3, Lines 57-63).

Thus it is obvious to one in the ordinary skill in the art at the time of invention was made to incorporate teaching of GE et al. in Okuda et al. modified by Nakano et al. and Guillemaud et al. teaching to be able to improve brightness, contrast and resolution in an optical device display.

Regarding Claim 16, Okuda et al. teaches the light emission element is one of an EL element (Col. 1, Line 60 to Col. 2, line 4). Ge et al. teaches a light emitting diode and an FED (Col. 1, Lines 37,38, Col. 2, Lines 60-64, Col. 3, Lines 57-63).

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Applicant is informed that all of the other additional cited references either anticipate or render the claims obvious. In order to not to be repetitive and exhaustive, the examiner did draft additional rejection based on those references.

## Response to Arguments

8. Applicant's arguments filed 05-20-2004 have been fully considered but they are not persuasive.

Applicant argues the cited references fails to teach memory read from the memory unit in different order for each single predetermined frame or each plural predetermined frames.

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Examiner disagrees as Nakano et al. teaches the (i), the plurality of read unit display data are written to the picture displaying unit in a different order for each single predetermined frame or each plural predetermined frames, such that the display content in the picture displaying unit is c) different for the each predetermined frame or frames. (Col. 13, Lines 16-26, Col. 14, Lines 4-10, Col. 15, Lines 11 to Col. 16, Line 3); and newly cited reference of Dye et al. teaches memory read from the memory unit in different order for each single predetermined frame or each plural predetermined frames (page 3, paragraphs 25,26, page 14, paragraph 178, page 15, paragraph 186); also newly cited reference of Guillemaud et al. teaches memory read from the memory unit in different order for each single predetermined frame or each plural predetermined frames (Col. 10, Lines 6-32, Col. 15, Lines 15-24).

## Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Dye (5,995,120) Graphics system including a virtual frame buffer which stores video/pixel data in a plurality of memory areas.

- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prabodh M Dharia whose telephone number is 703-605-1231. The examiner can normally be reached on M-F 8AM to 5PM.
- 11. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on 703-3054938. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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12. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

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May 30, 2004

VIJAY SHANKAR PRIMARY EXAMINER

Mysephill .